

#### UNITED STATES PATENT AND TRADEMARK OFFICE

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1	09/493,226		James C. Alexander	•		
	4.	K CELLA HARPER	* •	EXAMINER		
•;	30 ROCKEFEL NEW YORK, N			QUASH, ANTHONY G		
				ART UNIT	PAPER NUMBER	

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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	_ M/C				
*		09/493,226	ALEXANDER ET AL					
	Office Action Summary	Examiner	Art Unit					
		Anthony Quash	2881					
	The MAILING DATE of this communication app							
Period fo	• •							
THE - Exte after - If the - If NO - Failu - Any earn	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of the vill apply and will expire SIX (6) MC, cause the application to become	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communicat ABANDONED (35 U.S.C. § 133).	lion.				
Status 1)⊠	Responsive to communication(s) filed on 31 J	January 2002						
2a)⊠		is action is non-final.						
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3)	Since this application is in condition for alloward closed in accordance with the practice under			5 15				
Disposit	ion of Claims			•				
4)🖂	Claim(s) <u>1-46</u> is/are pending in the application	i.						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5)	Claim(s) is/are allowed.	•						
6)⊠	Claim(s) <u>1-46</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and/or	r election requirement.	•					
	ion Papers							
•	The specification is objected to by the Examine							
10)	The drawing(s) filed on is/are: a) ☐ accep	•						
441	Applicant may not request that any objection to the The proposed drawing correction filed on	•						
11)			disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.								
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	under 35 U.S.C. §§ 119 and 120  Acknowledgment is made of a claim for foreign	nriority under 25 U.S.C.	£ 110(a) (d) or (f)					
	All b) Some * c) None of:	i priority under 33 0.3.0	9 119(a)-(u) or (i).					
a)	1. Certified copies of the priority documents	s have been received						
	2. Certified copies of the priority documents		Application No.					
	3. Copies of the certified copies of the prior							
* 5	application from the International But See the attached detailed Office action for a list	reau (PCT Rule 17.2(a))						
14) 🗌 A	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
	a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachmen	nt(s)			_				
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	V Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2,4,7-8,14-16,19-21, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wedekamp [820]. As per claim 1, Wedekamp [820] discloses a radiation source module for use in a fluid treatment system, the module comprising: a substantially elongate first support member (2) having a longitudinal first axis; and a first pair of radiation source assemblies (3) extending from the first support member (2), each radiation source assembly (3) comprising a radiation source (3), wherein the first pair of radiation source assemblies is oriented such that a second axis extending through a center point of each radiation source assembly is disposed at an angle with respect to the first axis. See Wedekamp [820] abstract, figs. 1-2, and col. 1 lines 10-35, col. 2 lines 1-11, 30-40, and column 3. However, Wedekamp [820] does not specifically state that two adjacent pairs of radiation source assemblies comprising a radiation source assembly being at a substantially uniform distance from three adjacent radiation source assemblies. Wedekamp [820] does teach clamps (10) being used to secure the lamp units (3) to the supporting member. In addition, Wedekamp [820]

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teaches that the lamps are to be arranged do that, "Depending on the effluent quantity, a greater or smaller number of emitters is disposed parallel, next to one another, and one above the other, so that there is no point in the effluent flow which is more than a predetermined maximum distance from the radiation sources. In this manner the bacteria present in the clarified effluent are reliably killed and the effluent is thus disinfected." See Wedekamp [820] fig. 2 and col. 1 lines 10-23. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have two adjacent pairs of radiation source assemblies comprising a radiation source assembly being at a substantially uniform distance from three adjacent radiation source assemblies in order to provide so that there is no point in the effluent flow which is more than a predetermined maximum distance from the radiation sources especially for areas which are very contaminated by bacteria as taught in Wedekamp [820]. In addition, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have two adjacent pairs of radiation source assemblies comprising a radiation source assembly be at a substantially uniform distance from three adjacent radiation source assemblies, since it has been held that rearranging parts of an invention involves only routine skill in the art.

As per claim 2, Wedekamp [820] discloses the angle being about 90 degrees. See Wedekamp [820] figs. 1-2.

As per claim 4, Wedekamp [820] discloses a plurality of pairs of radiation source assemblies (3) extending from the first support member (2). See Wedekamp [820] abstract, figs. 1-2, and col. 1 lines 10-35, col. 2 lines 1-11, 30-40, and column 3.

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As per claim 7, Wedekamp [820] discloses the radiation source module further comprising a substantially elongate second support member (2) spaced from the first support member (2), the radiation source assemblies being supported by both the first support member (2) and the second support member (2). See Wedekamp [820] abstract and figs. 1-2.

As per claim 8, Wedekamp [820] discloses the radiation source assemblies (3) each comprising at least one radiation source disposed with a protective sleeve (6). See Wedekamp [820] abstract, figs. 1-2, and col. 1 lines 10-35, col. 2 lines 1-11, 30-40, column 3, and col. 4 lines 1-20.

As per claim 14, Wedekamp [820] discloses the first radiation source assembly (2) and the second radiation source assembly (3) are in a substantially parallel relationship with respect to one another. See Wedekamp [820] figs. 1-2.

As per claim 15, Wedekamp [820] discloses the radiation source module further comprising a cleaning system for removing fouling materials from an exterior of the radiation source assemblies (3). See Wedekamp [820] col. 3 lines 1-30, 54-67, and col. 4 lines 1-20.

As per claim 16, Wedekamp [820] disclose the cleaning system comprises; a cleaning ring (15) for engagement with a portion of the exterior of the radiation source assemblies (3) and a motive means (4) to translate the slidable member over the exterior of the radiation source assembly (3). See Wedekamp [820] figs. 1-2, and column 3.

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As per claim 19, Wedekamp [820] discloses a single motive means (4) being provided for at least two radiation source assemblies (3). See Wedekamp [820] figs. 1-2, and column 3.

As per claim 20, Wedekamp [820] discloses at least two pairs of radiation source assemblies (3) extending from the first support member (2) to define a quartet of radiation source assemblies. See Wederkamp [820] figs. 1-2.

As per claim 21, Wedekamp [820] discloses a single motive means (4) being provided for the quartet of radiation source assemblies (3). See Wedekamp [820] figs. 2.

As per claim 45, Wedekamp [820] discloses a fluid treatment device comprising at least one radiation source module (3) as defined in claim 1. See Wedekamp [820] figs. 1-2.

Claims 25,27,29-30,34-36,39-41, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wedekamp [820]. As per claim 25, Wedekamp [820] discloses a radiation source module for use in a fluid treatment system, the module comprising: a substantially elongate first support member (2) having a longitudinal first axis; and a first column of radiation source assemblies (3) extending from the first support member (2), and a second column of radiation source assembly (3) extending from the first support member (2), each radiation source assembly (3) comprising a radiation source; the first column of radiation source assemblies (3) and the second column of radiation source assembles (3) and the second column of radiation source assembles disposed adjacent one another. See

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column 3. However, Wedekamp [820] does not specifically state that two adjacent pairs of radiation source assemblies comprising a radiation source assembly being at a substantially uniform distance from three adjacent radiation source assemblies. Wedekamp [820] does teach clamps (10) being used to secure the lamp units (3) to the supporting member. In addition, Wedekamp [820] teaches that the lamps are to be arranged do that, "Depending on the effluent quantity, a greater or smaller number of emitters is disposed parallel, next to one another, and one above the other, so that there is no point in the effluent flow which is more than a predetermined maximum distance from the radiation sources. In this manner the bacteria present in the clarified effluent are reliably killed and the effluent is thus disinfected." See Wedekamp [820] fig. 2 and col. 1 lines 10-23. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have two adjacent pairs of radiation source assemblies comprising a radiation source assembly being at a substantially uniform distance from three adjacent radiation source assemblies in order to provide so that there is no point in the effluent flow which is more than a predetermined maximum distance from the radiation sources especially for areas which are very contaminated by bacteria as taught in Wedekamp [820]. In addition, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have two adjacent pairs of radiation source assemblies comprising a radiation source assembly be at a substantially uniform distance from three adjacent radiation source assemblies, since it has been held that rearranging parts of an invention involves only routine skill in the art.

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As per claim 27, Wedekamp [820] discloses the first column of radiation source assemblies and the second column of radiation source assemblies disposed in a substantially non-staggered relationship with respect to one another. See Wedekamp [820] fig. 2.

As per claim 29, Wedekamp [820] discloses the radiation source module further comprising a substantially elongate second support member (2) spaced from the first support member (2), the radiation source assemblies (3) being support by both the first support member (2) and the second support member (2). See Wedekamp [820] fig. 1.

As per claim 30, Wedekamp [820] discloses the radiation source assemblies (3) each comprising at least one radiation source disposed with a protective sleeve (6). See Wedekamp [820] abstract, figs. 1-2, and col. 1 lines 10-35, col. 2 lines 1-11, 30-40, column 3, and col. 4 lines 1-20.

As per claim 34, Wedekamp [820] discloses the first radiation source assembly and the second radiation source assembly being in a substantially parallel relationship with respect to one another. See Wedekamp [820] figs. 1-2.

As per claim 35, Wedekamp [820] discloses a cleaning system for removing fouling materials from an exterior of the radiation source assemblies. See Wedekamp [820] fig. 1 and col. 3 lines 54-67.

As per claim 36, Wedekamp [820] discloses the cleaning system comprising a cleaning ring (15) for engagement with a portion of the exterior of the radiation source assemblies (3) and motive means (4) to translate the slidable member over the exterior of the radiation source assembly. See Wedekamp [820] fig. 1 and col. 3 lines 60-67.

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As per claim 39, Wedekamp [820] discloses a single motive means (4) being provided for at least two radiation source assemblies (3). See Wedekamp [820] figs. 1-2 and col. 3 lines 60-67.

As per claim 40, Wedekamp [820] discloses at least two pairs of radiation source assemblies (3) extending from the first support member (2) to define a quartet of radiation source assemblies. See Wedekamp [820] fig. 2.

As per claim 41, Wedekamp [820] discloses a single motive means (4) being provided for each quartet of radiation source assemblies (3) to define a quartet of radiation source assemblies. See Wedekamp [820] figs. 2.

As per claim 46, Wedekamp [820] discloses a fluid treatment device comprising at least one radiation source module (3) as defined in claim 25. See Wedekamp [820] figs. 1-2.

Claims 9,22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wedekamp [820]. As per claim 9, Wedekamp [820] discloses all aspects of the claimed invention except for the protective sleeve comprising a quartz sleeve. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the protective sleeve be comprised of a quartz sleeve, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice.

As per claim 22, Wedekamp [820] teaches all aspects of the claimed invention except for explicitly stating that the radiation source module further comprises a power supply for the radiation source assemblies (3). However, Wedekamp [820] does teach

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that it is known to have electrical supply lines distributed through the frame and the stopper in order to supply the lamps with power. See Wedekamp [820] col. 1 lines 25-35 and col. 6 lines 5-10. It would have been obvious to one of ordinary skill in the art at the time the invention was made to distribute electrical supply lines in the frame, as taught by Wedekamp [820] in order to provide power to the radiation source assemblies (3).

Claims 3,6,11,26,31, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wedekamp [820] in view of Glatthar [704]. As per claim 3, Wedekamp [820] teaches all aspects of the claim except for the radiation source assembly being disposed at an acute angle. However, Glatthar [704] does teach varying the angle for the radiation source assembly. See Glatthar [704] col. 1 lines 30-55, col. 3 lines 40-70. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the radiation source assembly disposed at an acute angle in order to insure a more diversified distribution of the germicidal rays as taught in Glatthar [704].

As per claim 6, Wedekamp [820] teaches all aspects of the claim except for the radiation source assemblies being cantilevered from the from the first support member in a non-perpendicular manner. However, Glatthar [704] does teach varying the angle for the radiation source assembly. See Glatthar [704] col. 1 lines 30-55, col. 3 lines 40-70. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the radiation source assemblies cantilevered from the first support member in a non-perpendicular manner in order to insure a more

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diversified distribution of the germicidal rays as taught in Glatthar [704]. However, Glatthar [704] does teach varying the angle for the radiation source assembly. See Glatthar [704] col. 1 lines 30-55, col. 3 lines 40-70. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the radiation source assemblies cantilevered from the first support member in a non-perpendicular manner in order to insure a more diversified distribution of the germicidal rays as taught in Glatthar [704].

As per claim 11, Wedekamp [820] teaches all aspects of the claim except for the first elongate connector and second elongate connector being a substantially non-parallel relationship with respect to one another. However, Glatthar [704] does teach varying the angle of the radiation source assemblies in order to insure a more diversified distribution of the germicidal rays. See Glatthar [704] col. 1 lines 30-55, col. 3 lines 40-70. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the first elongated connector and the second elongated connector in a substantially non-parallel relationship with respect to one another in order to vary the angle in which radiation is emitted from the radiation assemblies and maximize the distribution of radiation through fluid.

As per claim 26, Wedekamp [820] teaches all aspects of the claimed invention except for the first column of radiation source assemblies and the second column of radiation source assemblies being in a substantially staggered relationship with respect to one another. However, Glatthar [704] does teach the first column of radiation source assemblies and the second column of radiation source assemblies being in a

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substantially staggered relationship with respect to one another. See Glatthar [704] fig. 2, col. 1 lines 30-55, col. 2 lines 40-50, and col. 3 lines 40-70. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the first column of radiation source assemblies and the second column of radiation source assemblies in a substantially staggered relationship with respect to one another in order to permit the end portions of the bases of adjoining units to lie side by side, or overlap laterally in order to achieve the maximum number of units in a minimum space and ensure better irradiation of the fluid as taught in Glatthar [704].

As per claim 31, Wedekamp [820] in view of Glatthar [704] discloses all aspects of the claimed invention except for the protective sleeve comprising a quartz sleeve. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the protective sleeve be comprised of a quartz sleeve, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice.

As per claim 42, Wedekamp [820] teaches all aspects of the claimed invention except for explicitly stating that the radiation source module further comprises a power supply for the radiation source assemblies (3). However, Wedekamp [820] does teach that it is known to have electrical supply lines distributed through the frame and the stopper in order to supply the lamps with power. See Wedekamp [820] col. 1 lines 25-35 and col. 6 lines 5-10. It would have been obvious to one of ordinary skill in the art at the time the invention was made to distribute electrical supply lines in the frame, as

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taught by Wedekamp [820] in order to provide power to the radiation source assemblies (3).

Claims 5,10,12-13,15-18, 22-24,28,32,37-38,42-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wedekamp [820] in view of Maarschalkerweed [390]. As per claim 5, Wedekamp [820] teaches all aspects of the claim except for the radiation source assemblies being cantilevered from the first support member. However, Maarschalkerweed [390] does teach the radiation source assemblies (176) being cantilevered from the first support member (160). See Maarschalkerweed [390] fig. 3-4. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the radiation assemblies be cantilevered from the first support member in order to allow placement of more cantilevered on the support.

As per claim 10, Maarschalkerweed [390] discloses a first elongate connector (192) between the first support member (160) and a first radiation source assembly (176) and a second elongate connector (192) between the first support member (160) and a second radiation source assembly (176). See Maarschalkerweed [390] figs. 3-4.

As per claim 12, Maarschalkerweed [390] teaches the first elongate connector (192) and the second elongate connector (192) being substantially the same length.

See Maarschalkerweed [390] fig. 6.

As per claim 13, Maarschalkerweed [390] teaches all aspects of the claim except for the first elongate connector (192) and the second elongate connector (192) being of a different length. It would have been an obvious matter of design choice to

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have the first elongated connector (192) and the second elongate connector (192) be of different lengths since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art.

As per claim 15, Maarschalkerweed [390] discloses a cleaning system for removing fouling materials from an exterior of the radiation source assemblies. See Maarschalkerweed [390] figs. 4,6 and col. 6 lines 35-67 and column 7.

As per claim 16, Maarschalkerweed [390] discloses the cleaning system comprising a cleaning ring (308) for engagement with a portion of the exterior of the radiation source assemblies and motive means to translate the slidable member over the exterior of the radiation source assembly (328). See Maarschalkerweed [390] col. 7 lines 1-10, col. 9 lines 1-20, 60-67 and col. 10 lines 1-15.

As per claim 17, Maarschalkerweed [390] discloses the cleaning ring comprising a chamber (244) for surrounding a portion of the exterior of the radiation source assembly (176). See Maarschalkerweed [390] figs. 3-5, col. 6 lines 35-67, and col. 7 lines 1-10.

As per claim 18, Maarschalkerweed [390] discloses the cleaning ring further comprises an inlet (252) for introduction of a cleaning solution to the chamber (224). See Maarschalkerweed [390] figs. 3-6, col. 6 lines 35-67, and col. 7 lines 1-10.

As per claim 22, Maarschalkerweed [390] discloses the radiation source module comprising a power supply for the radiation source assemblies. See

Maarschalkerweed [390] col. 7 lines 50-60.

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As per claim 23, Maarschalkerweed [390] discloses the power supply being disposed in a housing attached (276) attached to the first support member (160). See Maarschalkerweed [390] figs.3-5 and col. 7 lines 50-60.

As per claim 24, Maarschalkerweed [390] teaches all aspects of the claim except for the power supply being disposed in the first support member (160). However, Maarschalkerweed [390] does teach electrical wires (220) coming from the power source and going through the first support member (160) to reach the radiation sources (180), which is an equivalent structure known in the art. See Maarschalkerweed [390] figs. 3-4 and col. 7 lines 45-65. Therefore, because these two were art-recognized equivalents at the time the invention was made one of ordinary skill in the art would have found it obvious to substitute the electrical wires disposed in the first support member and connected to a power supply in the ballast for a power supply disposed in the first support member.

As per claim 28, Wedekamp [820] teaches all aspects of the claim except for the radiation source assemblies being cantilevered from the first support member.

Maarschalkerweed [390] does teach radiation source assemblies (176) being cantilevered from the first support (160). See Maarschalkerweed [390] figs. 3-4,6 and col. 6 lines 40-50. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the radiation source assemblies cantilevered from the first support member in order to allow one to vary the positions of the radiation sources so as to better irradiate the fluid and also make it easier to replace damage radiation sources.

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As per claim 32, Maarschalkerweed [390] teaches a first elongate connector (192) between the first support member (160) and a first radiation source assembly (176) and a second elongate connector (192) between the first support member (160) and a second radiation source assembly (176). See Maarschalkerweed [390] figs. 3-4.

As per claim 37, Maarschalkerweed [390] discloses the cleaning ring comprising a chamber (244) for surrounding a portion of the exterior of the radiation source assembly (176). See Maarschalkerweed [390] figs. 3-5, col. 6 lines 35-67, and col. 7 lines 1-10.

As per claim 38, Maarschalkerweed [390] discloses the cleaning ring further comprises an inlet (252) for introduction of a cleaning solution to the chamber (224). See Maarschalkerweed [390] figs. 3-6, col. 6 lines 35-67, and col. 7 lines 1-10.

As per claim 42, Maarschalkerweed [390] teaches the radiation source module comprising a power supply for the radiation source assemblies. See Maarschalkerweed [390] col. 7 lines 50-60.

As per claim 43, Maarschalkerweed [390] teaches the power supply being disposed in a housing attached (276) attached to the first support member (160). See Maarschalkerweed [390] figs 3-5 and col. 7 lines 50-60.

Claim 33,44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wedekamp [820] in view of Maarschalkerweed [390] as applied to claim 32 above, and further in view of Glatthar [704]. As per claim 33, Wedekamp [820] in view of Maarschalkerweed [390] teach all aspects of the claim except for the first elongate connector and second elongate connector being a substantially non-parallel relationship

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with respect to one another. However, Glatthar [704] does teach varying the angle of the radiation source assemblies in order to insure a more diversified distribution of the germicidal rays. See Glatthar [704] col. 1 lines 30-55, col. 3 lines 40-70. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the first elongated connector and the second elongated connector in a substantially non-parallel relationship with respect to one another in order to vary the angle in which radiation is emitted from the radiation assemblies and maximize the distribution of radiation through fluid.

As per claim 44, Maarschalkerweed [390] teaches all aspects of the claim except for the power supply being disposed in the first support member (160). However, Maarschalkerweed [390] does teach electrical wires (220) coming from the power source and going through the first support member (160) to reach the radiation sources (180), which is an equivalent structure known in the art. See Maarschalkerweed [390] figs. 3-4 and col. 7 lines 45-65. Therefore, because these two were art-recognized equivalents at the time the invention was made one of ordinary skill in the art would have found it obvious to substitute the electrical wires disposed in the first support member and connected to a power supply in the ballast for a power supply disposed in the first support member.

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# Response to Arguments

Applicant's arguments with respect to claims 1-46 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Quash whose telephone number is (703)-308-6555. The examiner can normally be reached on M-F from 9 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee, can be reached on (703)-308-4116. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0956.

A. Quash 4/10/03

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800